

PROCESS SEAL FOR PROCESS CONTROL TRANSMITTER

ABSTRACT

A process control instrument for coupling
5 to a process is attachable to a metal flange. The
flange has a first passageway adapted to be filled
with process fluid. The process control instrument
includes a body having an opening adjacent to the
first passageway for receiving process fluid from the
10 first passageway when the process control instrument
is attached to the flange. A diaphragm is disposed
across the opening for fluid communication with the
process fluid. A seal is positionable against the
flange to prevent process fluid from leaking past the
15 flange and diaphragm. The seal includes a ring
positioned in the opening and coupled to the body,
the ring being substantially in contact with the
diaphragm along an inner annular shoulder when the
body is not attached to the flange (unloaded).